



PCT09

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## RAW SEQUENCE LISTING

DATE: 02/21/2003 8.6

PATENT APPLICATION: US/09/555,981E

TIME: 14:09:21

Input Set : D:\SEQLISTCRF(1-25-03).txt

Output Set: N:\CRF4\02212003\I555981E.raw

```

3 <110> APPLICANT: Lead B.V.
4     NOTEBORN, Mathieu Hubertus Maria
5     DAMEN-VAN OORSCHOT, Astrid Adriana Anna Maria
7 <120> TITLE OF INVENTION: MOLECULES INTERACTING WITH APOPTIN
9 <130> FILE REFERENCE: 2906-5008
C--> 11 <140> CURRENT APPLICATION NUMBER: US/09/555,981E
12 <141> CURRENT FILING DATE: 2000-06-26
14 <150> PRIOR APPLICATION NUMBER: PCT/NL98/00687
15 <151> PRIOR FILING DATE: 1998-12-03
17 <150> PRIOR APPLICATION NUMBER: EP 97203781.6
18 <151> PRIOR FILING DATE: 1997-12-12
20 <160> NUMBER OF SEQ ID NOS: 17
22 <170> SOFTWARE: PatentIn version 3.0
24 <210> SEQ ID NO: 1
25 <211> LENGTH: 17
26 <212> TYPE: DNA
27 <213> ORGANISM: Artificial Sequence
29 <220> FEATURE:
30 <221> NAME/KEY: misc_feature
31 <223> OTHER INFORMATION: pACT-specific sequencing primer
33 <400> SEQUENCE: 1
34 taccactaca atggatg
37 <210> SEQ ID NO: 2
38 <211> LENGTH: 15
39 <212> TYPE: PRT
40 <213> ORGANISM: Artificial Sequence
42 <220> FEATURE:
43 <221> NAME/KEY: misc_feature
44 <223> OTHER INFORMATION: Hou/Nmi-like protein putative immunogenic peptide
46 <400> SEQUENCE: 2
48 Arg Asn Gly Gly Gly Glu Val Asp Arg Val Asp Tyr Asp Arg Gln
49 1             5             10             15
51 <210> SEQ ID NO: 3
52 <211> LENGTH: 16
53 <212> TYPE: PRT
54 <213> ORGANISM: Artificial Sequence
56 <220> FEATURE:
57 <221> NAME/KEY: misc_feature
58 <223> OTHER INFORMATION: IFP35-like protein putative immunogenic peptide
60 <400> SEQUENCE: 3
62 Cys Gln Leu Arg Lys Glu Leu Gly Asp Ser Pro Lys Asp Lys Val Pro
63 1             5             10             15
65 <210> SEQ ID NO: 4

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```

148 Lys Gly Leu Ile Asp Glu Ile Thr Lys Lys Asn Ile Gln Leu Lys Lys
149          35          40          45
151 Glu Ile Gln Lys Leu Glu Thr Glu Leu Gln Glu Ala Thr Lys Glu Phe
152          50          55          60
154 Gln Ile Lys Glu Asp Ile Pro Glu Thr Lys Met Lys Phe Leu Ser Val
155 65          70          75          80
157 Glu Thr Pro Glu Asn Asp Ser Gln Leu Ser Asp Ile Ser Cys Ser Phe
158          85          90          95
160 Gln Val Ser Ser Lys Val Pro Thr Glu Ile Gln Lys Gly Gln Ala Leu
161          100          105          110
163 Ile Thr Phe Glu Lys Glu Glu Val Ala Gln Asn Val Val Ser Met Ser
164          115          120          125
166 Lys His His Val Gln Ile Lys Asp Val Asn Leu Glu Val Thr Ala Lys
167          130          135          140
169 Pro Val Pro Leu Asn Ser Gly Val Arg Phe Gln Val Thr Val Glu Val
170 145          150          155          160
172 Ser Lys Met Lys Ile Asn Val Thr Glu Ile Pro Asp Thr Leu Arg Glu
173          165          170          175
175 Asp Gln Met Arg Arg Lys Leu Glu Leu Ser Phe Ser Lys Ser Arg Asn
176          180          185          190
178 Gly Arg Arg Arg Cys Gly Pro Arg Gly Thr Met Thr Asp Ser Pro Gly
179          195          200          205
181 Val Gln Ser Ser Arg Leu Val Glu Ile Gly Ser Gly
182          210          215          220
184 <210> SEQ ID NO: 7
185 <211> LENGTH: 307
186 <212> TYPE: PRT
187 <213> ORGANISM: Homo sapiens
189 <400> SEQUENCE: 7
191 Met Glu Ala Asp Lys Asp Asp Thr Gln Gln Ile Leu Lys Glu His Ser
192 1          5          10          15
194 Pro Asp Glu Phe Ile Lys Asp Glu Gln Asn Lys Gly Leu Ile Asp Glu
195          20          25          30
197 Ile Thr Lys Lys Asn Ile Gln Leu Lys Lys Glu Ile Gln Lys Leu Glu
198          35          40          45
200 Thr Glu Leu Gln Glu Ala Thr Lys Glu Phe Gln Ile Lys Glu Asp Ile
201          50          55          60
203 Pro Glu Thr Lys Met Lys Phe Leu Ser Val Glu Thr Pro Glu Asn Asp
204 65          70          75          80
206 Ser Gln Leu Ser Asn Ile Ser Cys Ser Phe Gln Val Ser Ser Lys Val
207          85          90          95
209 Pro Tyr Glu Ile Gln Lys Gly Gln Ala Leu Ile Thr Phe Glu Lys Glu
210          100          105          110
212 Glu Val Ala Gln Asn Val Val Ser Met Ser Lys His His Val Gln Ile
213          115          120          125
215 Lys Asp Val Asn Leu Glu Val Thr Ala Lys Pro Val Pro Leu Asn Ser
216          130          135          140
218 Gly Val Arg Phe Gln Val Thr Val Glu Val Ser Lys Met Lys Ile Asn
219 145          150          155          160

```

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```

221 Val Thr Glu Ile Pro Asp Thr Leu Lys Glu Asp Gln Met Arg Asp Lys
222                               165                               170                               175
224 Leu Glu Leu Ser Phe Ser Lys Phe Arg Asn Gly Gly Gly Glu Val Asp
225                               180                               185                               190
227 Arg Val Asp Tyr Asp Arg Gln Ser Gly Ser Ala Val Ile Thr Phe Val
228                               195                               200                               205
230 Glu Ile Gly Val Ala Asp Lys Ile Leu Lys Lys Lys Glu Tyr Pro Leu
231                               210                               215                               220
233 Tyr Ile Asn Gln Thr Cys His Arg Val Thr Val Ser Pro Tyr Thr Glu
234 225                               230                               235                               240
236 Ile His Leu Lys Lys Tyr Gln Ile Phe Ser Gly Thr Ser Lys Arg Thr
237                               245                               250                               255
239 Val Leu Leu Thr Gly Met Glu Gly Ile Gln Met Asp Glu Glu Ile Val
240                               260                               265                               270
242 Glu Asp Leu Ile Asn Ile His Phe Gln Arg Ala Lys Asn Gly Gly Gly
243                               275                               280                               285
245 Glu Val Asp Val Val Lys Cys Ser Leu Gly Gln Pro His Ile Ala Tyr
246                               290                               295                               300
248 Phe Glu Glu
249 305

```

252 &lt;210&gt; SEQ ID NO: 8

253 &lt;211&gt; LENGTH: 659

254 &lt;212&gt; TYPE: DNA

255 &lt;213&gt; ORGANISM: Homo sapiens

257 &lt;220&gt; FEATURE:

258 &lt;221&gt; NAME/KEY: misc\_feature

259 &lt;222&gt; LOCATION: (1)...(659)

260 &lt;223&gt; OTHER INFORMATION: for any n in the sequence, n is an undefined base

262 &lt;400&gt; SEQUENCE: 8

```

263 agcaggtgct gcaacaaaag gagcacacga tcaacatgga ggagtgccgg ctgcgggtgc      60
265 aggtccagcc cttggagctg cccatgggtca ccaccatcca ggtgtccagc cagttgagtg      120
267 gccggagggt gttggtcact ggatttcctg ccagcctcag gctgagtgag gaggagctgc      180
W--> 269 tggaacaanct anagatcttc tttggcaaga ctaggaacgg aggtggcnat gtggacnttc      240
271 ggganctact gccagggant gtcattgctg ggtttgctag ggatggagtg gctcancgtc      300
273 tgtgccaaat cggccatttc acagtgccac tgggtgggca gcangtccct ctgagagtct      360
275 ctccgtatgt gaatggggan atccagangg ctganatcag gtcncagcca nttccccgct      420
277 cgggtactggt gctcaacatt cctgatatct tggatggccc ggagctgcat gacgtcctgg      480
279 anatccactt ccagaanccc acccgcgggg gcggagatgt aagacgccct gacagtcgta      540
281 ccccaaggac aacagggcct aacagtcttc acctcctgaa tcaaggctan gggcctcccc      600
283 cttctcatcc tccccacccc ccccgccaaa ggttctcaan actgggcctg ggctttntg      659

```

286 &lt;210&gt; SEQ ID NO: 9

287 &lt;211&gt; LENGTH: 630

288 &lt;212&gt; TYPE: DNA

289 &lt;213&gt; ORGANISM: Homo sapiens

291 &lt;220&gt; FEATURE:

292 &lt;221&gt; NAME/KEY: misc\_feature

293 &lt;222&gt; LOCATION: (1)...(630)

294 &lt;223&gt; OTHER INFORMATION: for any n in the sequence, n is an undefined base

296 &lt;400&gt; SEQUENCE: 9

## RAW SEQUENCE LISTING

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Output Set: N:\CRF4\02212003\I555981E.raw

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297 ccaaagtggc tgagcaggtg ctgcaacaaa aggagcacac gatcaacatg gaggagtgcc      60
299 ggctgcgggt gcaggtccag cccttggagc tgcccatggt caccaccatc caggtgtcca      120
301 gccagttgag tggccggagg gtgttggtca ctggatttcc tgccagcctc aggctgagtg      180
303 aggaggagct gctggacaag ctagagatct tctttggcaa gactaggaac ggaggtggcg      240
305 atgtggacgt tcgggagcta ctgccaggga gtgtcatgct ggggtttgct agggatggag      300
W--> 307 tggtcagcg tctgtgccaa atcggccaaag ttcacagtgc cactgggtgg gcancaagtc      360
309 cctctgagag tctctccgta tgtgaatggg gagatccaga aggtctgagat caggtcgcan      420
311 ccagttcccc nctcggtagt ggggtgctcaa cattcctgat atcttggatt ggcccggagc      480
313 tgcacnacgt cctgganac aacttcanaa gccaccgccg cggggcngng aggtanaagg      540
315 cctgacatcn ttaccccaaa ggacagcatg gncctaacag tcctcacctc cnaatcangc      600
317 tnnggggctn cccttctanc ntcccaactg                                     630
320 <210> SEQ ID NO: 10
321 <211> LENGTH: 631
322 <212> TYPE: DNA
323 <213> ORGANISM: Homo sapiens
325 <220> FEATURE:
326 <221> NAME/KEY: misc_feature
327 <222> LOCATION: (1)...(631)
328 <223> OTHER INFORMATION: for any n in the sequence, n is an undefined base
330 <400> SEQUENCE: 10
331 ggatccactg ccctctgctt gcgggctctg ctctgatcac ctttgatgac cccaaagtgg      60
333 ctgagcaggt gctgcaacaa aaggagcaca cgatcaacat ggaggagtgc cggctgcggg      120
335 tgcaggtcca gcccttggag ctgcccattg tcaccaccat ccaggtgatg gtgtccagcc      180
W--> 337 anttgagtgg cgggaggtg ttggtcactg gatttctctgc cagcctcagg ctgantgagg      240
339 aggagctgct ggacaagcta tgagatcttc tttggcaana ctangaacgg angtggcgat      300
341 gtggacgttc gggagctact gccaggagtg gtcattgctg ggtttgctac ggatggagtg      360
343 gctcagcgtc tgtgccaaat cggccagttc acaagtgcc a ctgggtgggc agcaagtccc      420
345 tctgagagtc tctccgtatg tgantggnga gatcagaatg ctganattaa gtcgcatcca      480
347 attcctcgct cnggtactgg tgctcannat cctganatct tggattggcc ccngantnca      540
349 tganatctgg nagattcaat tncanaagtc canccnneng ngncgggaag tanangcccc      600
351 ananttctn ncntanggnc agcanngcct g                                     631
354 <210> SEQ ID NO: 11
355 <211> LENGTH: 138
356 <212> TYPE: PRT
357 <213> ORGANISM: Homo sapiens
359 <400> SEQUENCE: 11
361 His Glu Gly Pro Lys Val Ala Glu Gln Val Leu Gln Gln Lys Glu His
362 1 5 10 15
364 Thr Ile Asn Met Glu Glu Cys Arg Leu Arg Val Gln Val Gln Pro Leu
365 20 25 30
367 Glu Leu Pro Met Val Thr Thr Ile Gln Val Ser Ser Gln Leu Ser Gly
368 35 40 45
370 Arg Arg Val Leu Val Thr Gly Phe Pro Ala Ser Leu Arg Leu Ser Glu
371 50 55 60
373 Glu Glu Leu Leu Asp Lys Leu Glu Ile Phe Phe Gly Lys Thr Arg Asn
374 65 70 75 80
376 Gly Gly Gly Asp Val Asp Val Arg Glu Leu Pro Gly Ser Val Met
377 85 90 95
379 Leu Gly Phe Ala Arg Asp Gly Val Ala Gln Arg Leu Cys Gln Ile Gly

```

**RAW SEQUENCE LISTING ERROR SUMMARY**  
PATENT APPLICATION: **US/09/555,981E**

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**Please Note:**

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:4; N Pos. 579,634,656,657,658  
Seq#:5; N Pos. 89,213,218,305,314,328,343,380,439,462,471,474,490,500,520  
Seq#:5; N Pos. 521,532,535,546,565,582,589,608,614,624,637,639,645,646,651  
Seq#:5; N Pos. 655,657,660,661,673,682,688,692,701,716  
Seq#:8; N Pos. 188,192,228,237,245,259,296,344,380,388,395,404,411,482,497  
Seq#:8; N Pos. 590,640,657  
Seq#:9; N Pos. 354,420,431,486,497,508,527,529,536,550,572,592,598,602,603  
Seq#:9; N Pos. 610,619,621  
Seq#:10; N Pos. 182,235,279,284,292,444,448,465,492,507,508,516,533,536,538  
Seq#:10; N Pos. 544,551,562,565,573,576,577,579,581,583,593,595,602,604,608  
Seq#:10; N Pos. 610,611,613,616,619,625,626  
Seq#:13; Xaa Pos. 64,82,96,97,100,149,150,155,163,168,170,176,177,179,185  
Seq#:13; Xaa Pos. 186,189,190,191,192,195,196,198,199,201,202,203,204,206  
Seq#:16; Xaa Pos. 137,146,173,177,179,197,202,205,213

**VERIFICATION SUMMARY**PATENT APPLICATION: **US/09/555,981E**

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Input Set : D:\SEQLISTCRF(1-25-03).txt

Output Set: N:\CRF4\02212003\I555981E.raw

L:11 M:270 C: Current Application Number differs, Replaced Current Application Number  
L:94 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:540  
M:341 Repeated in SeqNo=4  
L:112 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:60  
M:341 Repeated in SeqNo=5  
L:269 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:180  
M:341 Repeated in SeqNo=8  
L:307 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9 after pos.:300  
M:341 Repeated in SeqNo=9  
L:337 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10 after pos.:180  
M:341 Repeated in SeqNo=10  
L:470 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13 after pos.:48  
M:341 Repeated in SeqNo=13  
L:716 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16 after pos.:128  
M:341 Repeated in SeqNo=16



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| 3   | XT/     | 1               |

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